

Rec'd PCT/PT 2.0 APR 2005
International application No.

PCT/US03/33346

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C11D 7/50 US CL : 134/38, 40; 510/505, 206, 212, 407, 500, 417, 506 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 134/38, 40; 510/505, 206, 212, 407, 500, 417, 506			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Derwent, USPATFULL			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where		Relevant to claim No.
x	US 5,401,325 A (MIHELIC et al) 28 March 1995 (28.03.1995), columns 3-4 and 6.		1-13
x	US 5,811,380 A (Weitz) 22 September 1998 (22.09.1998), columns 4-5.		1-11
х	US 4,033,784 A (Lawson et al) 5 July 1977 (05.07.1977), columns 5-6 6.		1-2, 6-8, 10-13
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:		"T" later document published after the international filing date or priority	
	t defining the general state of the art which is not considered to be	date and not in conflict with the application principle or theory underlying the investigation.	
•	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider	
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	
	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent fa	amily
		Date of mailing of the international search report	
12 March 2004 (12.03.2004)		0.9 APR 2004	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US		AuthoTized officer' CUUT	
Commissioner for Patents		Gregory E. Webb	
	. Box 1450 xandria, Virginia 22313-1450	Telephone No. 571-272-170	
Facsimile No. (703) 305-3230			

Form PCT/ISA/210 (second sheet) (July 1998)